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# CO OPERATIVE VEGETABLE SEED PROGRAM

• Certi-Seed Service •



The faith and hope of the planter  
must be protected by  
the use of dependable seed

**EASTERN STATES FARMERS EXCHANGE**  
**SPRINGFIELD, MASS.**



# COOPERATIVE VEGETABLE SEED PROGRAM

## *Certi-Seed Service*

Successful gardening is dependent, to a large extent, upon the character of seed used. Through experience farmers have come to recognize the need for a cooperative vegetable seed service for more dependable crop production of the desired type and economy in the purchase of their basic and most important raw material — seeds.

### **Farmer Ownership and Control**

The Eastern States Farmers' Exchange is a non-stock, non-profit cooperative organization, owned and controlled by the farmers it serves. The only requirement for membership is participation and each member benefits in proportion to his purchases. Through a large volume of business farmers have accumulated adequate capital, developed ample facilities and employed trained personnel to carry out the sole purpose — service to its members.

### **Method of Procedure**

Information is assembled from producers, marketing agencies, processors and consumers to ascertain the types of the various vegetables preferred because of their superiority in production, distribution, manufacture and consumption.

### **Extensive Trials in Many Places**

Seed performance is observed by comparing the most promising vari-

eties, strains and seed sources in order to determine their adaptation to the principal vegetable producing regions, trueness to the desired types, productiveness and resistance to or freedom from disease.

### **Seed Improvement Is Thorough**

Plant breeding operations are performed by trained specialists working in cooperation with State Experiment Stations and the United States Department of Agriculture. In-breeding purifies strains so that they come true with uniformity; hybridization instills extreme vigor; cross-breeding creates new lines of the desired type; progeny reproduction affords pure-line selections; and mass production assures economy in the development of a seed supply with this type of inheritance for dependable performance.

### **Seed Is Treated to Control Disease**

Disease control, through a complete schedule of seed treatment, is performed at its source before the seeds are shipped because here the deadly chemicals and delicate heat treatments are most effectively applied, accurately controlled and economically done.

### **The Exchange Keeps a Complete Record of Each Lot of Seed**

Each lot of seed distributed will be identified by a brief descriptive name





and a code mark which represents a complete history of the strain. The crop will tell its own story to the gardener, the produce buyer and the ultimate consumer. Future seed distribution must be based upon satisfactory performance.

### **Suggestions for Trial Tests**

The seed supply is procured through the multiplication of our own foundation seed stocks and by purchases from sources of proven merit. Every lot of seed distributed is tested for vitality and proven in our trials by plant growth to productive maturity. The seed is thoroughly cleaned, graded or hand picked and thus refined with a margin of safety for true economic values and uniformity in a field stand.

However, one identical lot of seed may perform quite differently under a variety of soil, weather or cultural conditions. It is therefore essential to make several plantings in different places at intervals in the planting season. This will assure a higher degree of satisfaction to the grower who desires to make comparison tests.

Since this service is a means of improvement over ordinary sources of seed, the Exchange reserves the privilege of filling orders by including a small amount of one or several promising strains to be compared with the particular strain originally selected to fill the order.

### **Ask for Information on Crops of Special Interest**

Specific cultural directions will be supplied with a desire to guide the planter in successful crop production.

### **Classification by Culture and Usage**

Vegetables requiring similar culture, or susceptible to the same diseases or used for similar purposes will be grouped together for convenience to the grower. They will be arranged according to the necessity of starting plants under glass or suitable for outdoor seeding, and as to whether they are hardy, half-hardy or tender.

Price lists, order blanks and other tabulated material will be alphabetically arranged for quick and ready reference.

*Keep This Vegetable Seed Program Working in Your Community. Hand Your Copy to a Neighbor with Your Recommendation After You Have Ordered. Send Us the Names and Addresses of Others Who May Be Interested. We'll Mail Them One*

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## **COOPERATIVE VEGETABLE SEED SERVICE**

Prices of seed, except roots, include bags and transportation in Eastern States territory by parcel post, express or freight at our option (at lowest cost). Shipments will be made C.O.D. charges collect unless full payment accompanies the order. Prices are subject to change without notice. All orders are subject to confirmation and satisfactory stocks on hand at time of shipment which shall be made as requested any time during 1934.

An Eastern States packet contains sufficient seed of its kind for the average family. Where a continuous supply of each kind is desired, order varieties which will produce a succession from early to late maturity wherever available. This also affords a pleasing variety throughout the season. This is especially true of such items as Beans, Beets, Cabbage, Carrots, Celery, Corn, Muskmelons, Peas, Peppers, Pumpkin, Radish, Spinach, Squash, Tomato and Turnip.

The Eastern States Farmers' Exchange of Springfield, Mass. has exercised all reasonable precautions in the production and distribution of this seed; but cannot be responsible for the operation of Nature's laws; nor govern the conditions under which the crop is grown. Therefore, upon the acceptance of this seed, it is mutually agreed that the Eastern States Farmers' Exchange gives no warranty express or implied, concerning the description, quality, productiveness or condition of the crop and shall in no case be liable for more than the amount actually paid for the seed. Statements of germination, description and other information are given as the report of our tests, observations and advice.





*Stringless Green Pod beans, productive, fleshy, brittle, tender, stringless and without fiber, characterize Certi-Seed selections. Plant several varieties for succession.*

| Kind of Vegetable   | Description of Type        | Order from this Column of Eastern States Varieties | Consumers' Prices  |     |                   |         | 10-25-50-Cwt. |      |
|---|----------------------------|--|--|-----|-------------------|---------|---------------|------|
|   |                            |  | Pkt.   | Oz. | $\frac{1}{4}$ Lb. | 1-5 Lb. |               |      |
| <b>ASPARAGUS SEED</b> — Large green Rust resistant, early |                            |  | Mary Washington  | .10 | —                 | .35     | 1.25          | 1.20 |
| <b>ROOTS</b> — 1 Yr. same                                 |                            |  | Mary Washington, Packed F.O.B. \$1.50 per 100, \$8.00 per 1000 |     |                   |         |               |      |
| <b>BEAN</b> — Bush green snap                             |                            |  |  |     |                   |         |               |      |
|   | Flat pod, early            | Bountiful  | .10  | —   | —                 | .20     | .15           |      |
|   | Flat pod, late             | Low's Champion                                     | .10  | —   | —                 | .20     | .15           |      |
|   | Round pod, early           | Stringless Valentine                               | .10  | —   | —                 | .20     | .15           |      |
|   | Round pod, 2nd early       | Stringless Green Pod                               | .10  | —   | —                 | .20     | .15           |      |
|   | Round pod, late            | Stringless Refugee                                 | .10  | —   | —                 | .20     | .15           |      |
| <b>BEAN</b> — Bush wax snap                               |                            |  |  |     |                   |         |               |      |
|   | Flat pod, black seed       | Sure Crop  | .10  | —   | —                 | .20     | .15           |      |
|   | Round pod, black seed      | Pencil Pod   | .10  | —   | —                 | .20     | .15           |      |
|   | Round pod, white seed      | Brittle Wax  | .10  | —   | —                 | .20     | .15           |      |
| <b>BEAN</b> — Bush shell or field                         |                            |  |  |     |                   |         |               |      |
|   | Mottled red-green pod      | Horticultural                                      | .10  | —   | —                 | .20     | .15           |      |
|   | Red kidney, disease res't. | Geneva   | .10  | —   | —                 | .15     | .12           |      |
|   | Navy pea, disease res't.   | Michigan Robust                                    | .10  | —   | —                 | .15     | .12           |      |
|   | Yellow eye, runner type    | Main Yellow Eye                                    | .10  | —   | —                 | .15     | .12           |      |
| <b>BEAN</b> — Bush lima                                   |                            |  |  |     |                   |         |               |      |
|   | Small seeded canner        | Henderson  | .10  | —   | —                 | .20     | .15           |      |
|   | Large seeded potato type   | Fordhook   | .10  | —   | —                 | .30     | .25           |      |
| <b>BEAN</b> — Pole lima                                   |                            |  |  |     |                   |         |               |      |
|   | Small seeded canner        | Sieva  | .10  | —   | —                 | .25     | .20           |      |
|   | Large seeded, early        | Leviathan  | .10  | —   | —                 | .25     | .20           |      |
|   | Large seeded, 2nd early    | King of Garden                                     | .10  | —   | —                 | .25     | .20           |      |
| <b>BEAN</b> — Pole snap                                   |                            |  |  |     |                   |         |               |      |
|   | Green round pod            | Kentucky Wonder                                    | .10  | —   | —                 | .25     | .20           |      |
|   | Wax flat pod               | Golden Cluster                                     | .10  | —   | —                 | .25     | .20           |      |
|   | Mottled shell              | Cranberry  | .10  | —   | —                 | .25     | .20           |      |

*Fordhook bush limas are plump and nutritious. Use them green, canned or dried (left). . . . A delicious vegetable rapidly gaining popularity is Green Sprouting Calabrese Broccoli.*







*Detroit dark red beets with deep blood-red interior and indistinct rings have arrived (left). . . . This bright, smooth, tender, quick growing Crosby will please the most critical consumer.*

| Kind of<br>Vegetable              | Description<br>of Type    | Order from this Column of<br>Eastern States Varieties | Consumers' Prices |     |                      |            | 10-25-<br>50-<br>Cwt. |
|-----------------------------------|---------------------------|---|-------------------|-----|----------------------|------------|-----------------------|
|                                   |                           |   | Pkt.              | Oz. | $\frac{1}{4}$<br>Lb. | 1-5<br>Lb. |                       |
| <b>BEET — Table</b>               |                           |   |                   |     |                      |            |                       |
|                                   | Early forcing, flat       | Egyptian  | .10               | —   | .30                  | .90        | .85                   |
|                                   | Early market, oval        | Crosby (Early Wonder)                                 | .10               | —   | .30                  | .90        | .85                   |
|                                   | Late market, globe        | Detroit   | .10               | —   | .30                  | .90        | .85                   |
|                                   | All season canner, globe  | Ohio Canner   | .10               | —   | .30                  | .90        | .85                   |
| <b>BEET — Stock Mangel Wurzel</b> |                           |   |                   |     |                      |            |                       |
|                                   | Yellow oval, white flesh  | Giant Sludstrup                                       | .10               | —   | .25                  | .75        | .70                   |
|                                   | Red taper, rose-white fl. | Mammoth Long Red                                      | .10               | —   | .25                  | .75        | .70                   |
| <b>BEET — Swiss Chard —</b>       |                           |   |                   |     |                      |            |                       |
|                                   | Savoyed                   |   |                   |     |                      |            |                       |
|                                   | Light leaf, large rib     | Lucullus  | .10               | —   | .25                  | .75        | .70                   |
|                                   | Dark leaf, large rib      | Fordhook Giant  | .10               | —   | .25                  | .75        | .70                   |
| <b>BROCCOLI</b>                   |                           |   |                   |     |                      |            |                       |
|                                   | Green sprouting           | Calabrese   | .10               | .25 | .75                  | 2.50       | 2.40                  |
| <b>BRUSSELLS SPROUTS</b>          |                           |   |                   |     |                      |            |                       |
|                                   | Half dwarf                | Long Island Improved                                  | .10               | .25 | .75                  | 2.50       | 2.40                  |
| <b>CABBAGE — Smooth green</b>     |                           |   |                   |     |                      |            |                       |
|                                   | Round early, special      | Copenhagen (Golden Acre)                              | .10               | .50 | 1.50                 | 5.00       | 4.75                  |
|                                   |                           | Elite   |                   |     |                      |            |                       |
|                                   | Round early, regular      | Copenhagen (Golden Acre)                              | .10               | .25 | .75                  | 2.50       | 2.40                  |
|                                   |                           | Regular.  |                   |     |                      |            |                       |
|                                   | Round mid season          | Glory of Enkhuizen                                    | .10               | .25 | .75                  | 2.50       | 2.40                  |
|                                   | Round late, regular       | Short Stem Ballhead                                   | .10               | .25 | .75                  | 2.50       | 2.40                  |
|                                   | Round late, special       | Penn State Ballhead (Official)                        | .10               | .35 | 1.00                 | 3.50       | 3.25                  |
| <b>CABBAGE — Specialties</b>      |                           |   |                   |     |                      |            |                       |
|                                   | Savoy green flat, late    | Drumhead Savoy  | .10               | .25 | .75                  | 2.50       | 2.40                  |
|                                   | Smooth red round, late    | Mammoth Red Danish                                    | .10               | .25 | .75                  | 2.50       | 2.40                  |
|                                   | Smooth red oval, late     | Mammoth Rock Red                                      | .10               | .25 | .75                  | 2.50       | 2.40                  |

*The seed-bed of our cabbage trials where 80 strains were started for comparison (left). . . . Penn State Ballhead (Official), a high yielder developed by Dr. Myers of Pennsylvania State College.*







*Cauliflower, very sensitive to environment, is available in three proven strains {left}. . . Danvers is one of the most popular intermediate bunching carrots and a good keeper.*

| Kind of Vegetable                     | Description of Type      | Order from this Column of Eastern States Varieties | Consumers' Prices |      |                   |         | 10-25-50-Cwt. |
|---------------------------------------|--------------------------|--|-------------------|------|-------------------|---------|---------------|
|                                       |                          |  | Pkt.              | Oz.  | $\frac{1}{4}$ Lb. | 1-5 Lb. |               |
| <b>CABBAGE — Chinese</b>              |                          |  |                   |      |                   |         |               |
|                                       | Tall                     | Chihli   | .10               | .25  | .75               | 2.50    | 2.40          |
|                                       | Medium                   | PeTsai (Wong Bok)                                  | .10               | .25  | .75               | 2.50    | 2.40          |
| <b>CAULIFLOWER</b>                    |                          |  |                   |      |                   |         |               |
|                                       | Early simultaneous       | Danish Early Snowball                              | .25               | 1.50 | 5.00              | 18.00   | 17.00         |
|                                       | Main crop Erfurt         | Holland Erfurt                                     | .25               | 1.50 | 5.00              | 18.00   | 17.00         |
|                                       | Main crop Snowball       | Main Crop Snowball                                 | .25               | 1.50 | 5.00              | 18.00   | 17.00         |
| <b>CARROT — Cylindrical Stump</b>     |                          |  |                   |      |                   |         |               |
|                                       | Long, late               | Hutchinson   | .10               | .25  | .75               | 2.50    | 2.40          |
|                                       | Half long, early         | Nantes Long  | .10               | .25  | .75               | 2.50    | 2.40          |
| <b>CARROT — Semi Tapering Stump</b>   |                          |  |                   |      |                   |         |               |
|                                       | Half long, late          | Danvers  | .10               | .25  | .75               | 2.50    | 2.40          |
|                                       | Short, early             | Chantenay (Red Cored)                              | .10               | .25  | .75               | 2.50    | 2.40          |
|                                       | Long pointed to stump    | Imperator (Perfection)<br>(New Long Bunching)      | .10               | .25  | .75               | 2.50    | 2.40          |
| <b>CELERY — Yellow Easy Bleaching</b> |                          |  |                   |      |                   |         |               |
|                                       | Long, early forcing      | Golden Self Blanching (Cal.)                       | .10               | .50  | 1.50              | 5.00    | 4.75          |
|                                       | Long, full heart, late   | Golden Self Blanching (Jersey)                     | .25               | 1.50 | 5.00              | 18.00   | 17.00         |
|                                       | Long, full heart, early  | Golden Plume (Jersey Strain)                       | .25               | 1.50 | 5.00              | 18.00   | 17.00         |
|                                       | Short, full heart, early | Golden Plume (California)                          | .10               | .50  | 1.50              | 5.00    | 4.75          |
| <b>CELERY — Green thick rib</b>       |                          |  |                   |      |                   |         |               |
|                                       | Long, full heart, late   | Pascal (Jersey Strain)                             | .25               | 1.50 | 5.00              | 18.00   | 17.00         |
|                                       | Long, full heart, late   | Pascal (California Strain)                         | .10               | .25  | .75               | 2.50    | 2.40          |
|                                       | Long, full heart, early  | Easy Blanching (Jersey)                            | .25               | 1.50 | 5.00              | 18.00   | 17.00         |
|                                       | Long, full heart, early  | Easy Blanching (California)                        | .10               | .25  | .75               | 2.50    | 2.40          |

*When we look for an early bunching carrot the red cored Chantenay fills the bill {left}. . . The new long bunching Imperator makes a beautiful box carrot also for summer and fall.*



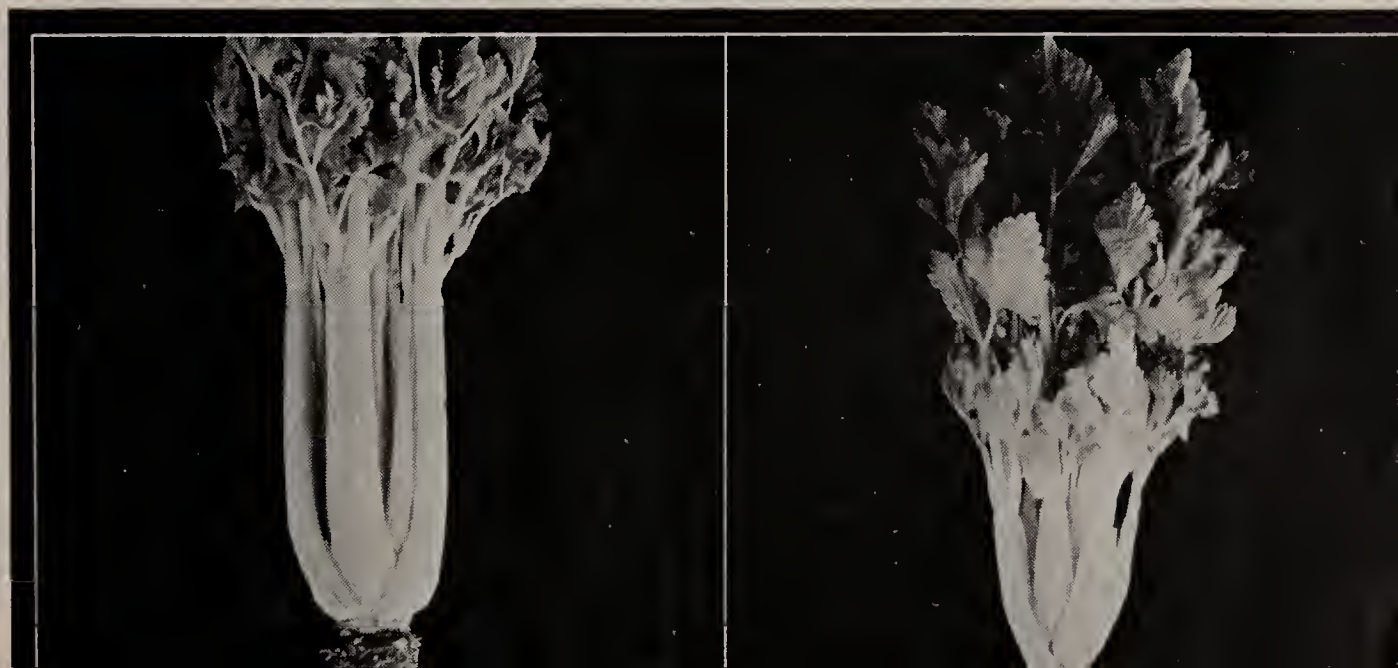




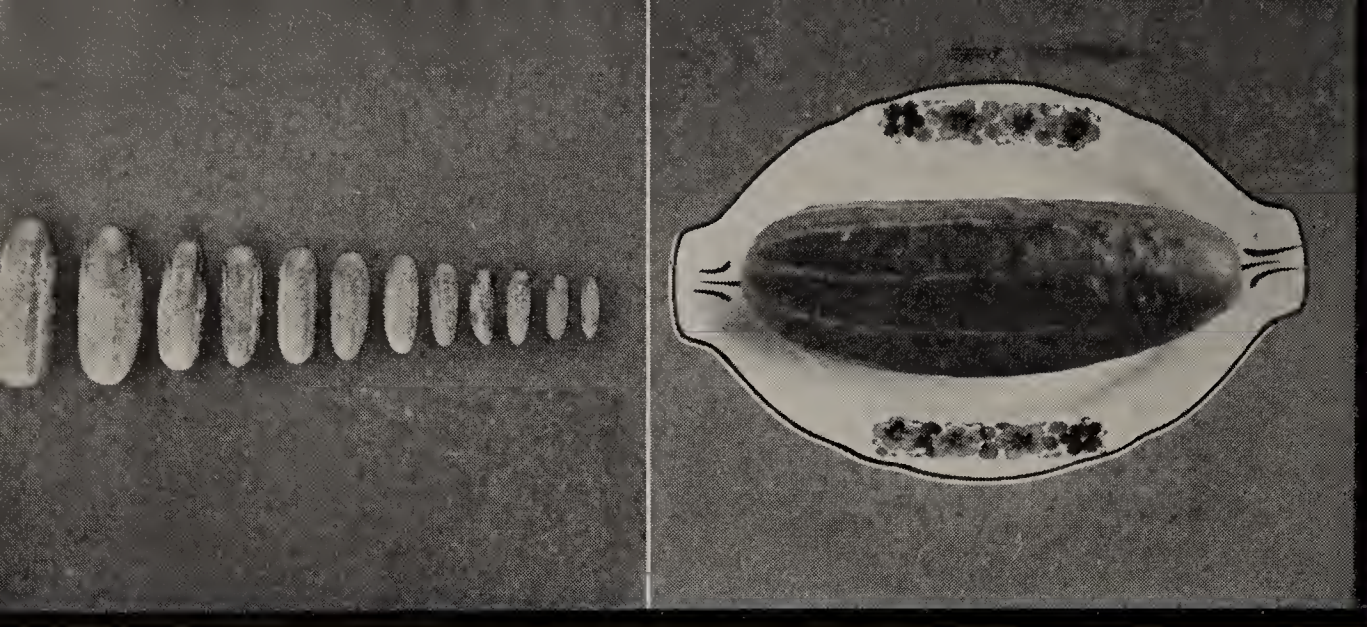
*Wherever there is danger of bacterial wilt, hybrid varieties are the only kind to plant. Top-cross Sunshine (Tendergold) on left and Golden Cross Bantam on right are excellent.*

| Kind of Vegetable                          | Description of Type         | Order from this Column of Eastern States Varieties | Consumers' Prices |     |                   |         | 10-25-50- Cwt. |
|--|-----------------------------|--|-------------------|-----|-------------------|---------|----------------|
|  |                             |  | Pkt.              | Oz. | $\frac{1}{4}$ Lb. | 1-5 Lb. |                |
| <b>CORN — Sweet yellow hybrid</b>          |                             |  |                   |     |                   |         |                |
|  | Part wilt res't, 2nd early  | Top Cross Sunshine                                 | .15               | —   | —                 | .35     | .30            |
|  | Very wilt res't, 2nd early  | Golden Cross Bantam                                | .15               | —   | —                 | .50     | .45            |
|  | Very wilt res't, late       | Bantam Evergreen Hybrid                            | .25               | —   | —                 | .75     | .70            |
| <b>CORN — Sweet white hybrid</b>           |                             |  |                   |     |                   |         |                |
|  | Very wilt res't, midseason  | Country Gentleman Hybrid                           | .25               | —   | —                 | .75     | .70            |
|  | Very wilt res't, mid late   | Evergreen Hybrid                                   | .25               | —   | —                 | .75     | .70            |
|  | Very wilt res't, late       | Red Green Hybrid                                   | .25               | —   | —                 | .75     | .70            |
| <b>CORN — Sweet yellow open pollinated</b> |                             |  |                   |     |                   |         |                |
|  | Wilt susceptible, early     | Golden Early Market                                | .10               | —   | —                 | .20     | .15            |
|  | Wilt susceptible, 2nd early | Golden Sunshine (Tendergold)                       | .10               | —   | —                 | .20     | .15            |
|  | Wilt susceptible, mid early | Whipples Early Yellow                              | .10               | —   | —                 | .20     | .15            |
|  | Wilt susceptible, midseason | Golden Bantam                                      | .10               | —   | —                 | .20     | .15            |
|  | Partial wilt res't, late    | Bantam Evergreen                                   | .10               | —   | —                 | .25     | .20            |
| <b>CORN — Sweet white open pollinated</b>  |                             |  |                   |     |                   |         |                |
|  | Wilt susceptible, 2nd early | Howling Mob  | .10               | —   | —                 | .20     | .15            |
|  | Part res't, mid season      | Country Gentleman                                  | .10               | —   | —                 | .20     | .15            |
|  | Part res't, late            | Narrow Grained Evergreen                           | .10               | —   | —                 | .20     | .15            |
| <b>CORN POP — Wilt susceptible</b>         |                             |  |                   |     |                   |         |                |
|  | White, early                | Japanese Hulless                                   | .10               | —   | —                 | .20     | .15            |
|  | Yellow, mid season          | College Sunburst                                   | .10               | —   | —                 | .20     | .15            |

*The selection of your favorite type of Certi-Seed celery will be your final answer to quality. Long, full-hearted, early or late, yellow or green and the short full-hearted type also (left).*







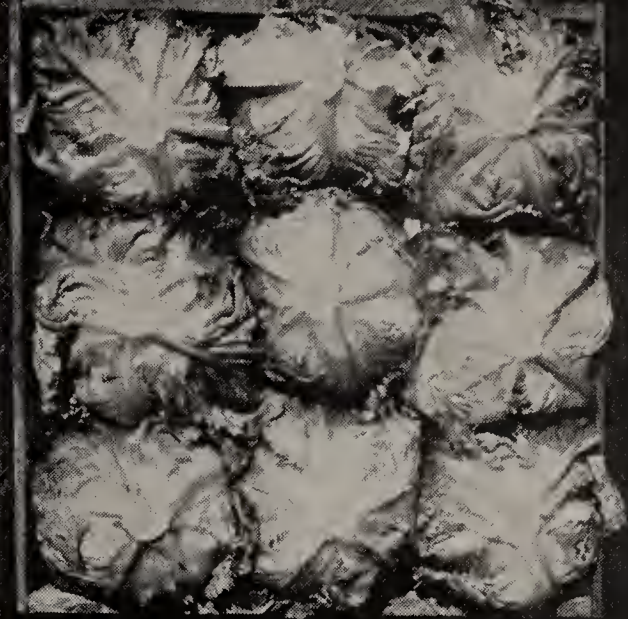
*Association Pickling cucumber (left) was developed by Michigan State College for the National Pickling Association. A popular general purpose cucumber is Davis Perfect on the right.*

| Kind of Vegetable          | Description of Type    | Order from this Column of Eastern States Varieties | Consumers' Prices |     |                   |         | 10-25-50-Cwt. |
|----------------------------|------------------------|--|-------------------|-----|-------------------|---------|---------------|
|                            |                        |  | Pkt.              | Oz. | $\frac{1}{4}$ Lb. | 1-5 Lb. |               |
| <b>CUCUMBER — Pickling</b> |                        |  |                   |     |                   |         |               |
|                            | Small prolific         | Association Pickling                               | .10               | —   | .25               | .75     | .70           |
|                            | Large prolific         | Chicago Pickling                                   | .10               | —   | .25               | .75     | .70           |
| <b>CUCUMBER — Slicing</b>  |                        |  |                   |     |                   |         |               |
|                            | Short thick            | Davis Perfect                                      | .10               | —   | .25               | .75     | .70           |
|                            | Intermediate           | Clark's Special                                    | .10               | —   | .25               | .75     | .70           |
|                            | Long Cylindrical       | Longfellow   | .10               | —   | .25               | .75     | .70           |
| <b>DANDELION</b>           |                        |  |                   |     |                   |         |               |
|                            | Large thick leaf       | Arlington Broad Leaf                               | .10               | .35 | 1.00              | 3.50    | 3.25          |
| <b>EGG PLANT</b>           |                        |  |                   |     |                   |         |               |
|                            | Oval, mid season       | Black Beauty                                       | .10               | .35 | 1.00              | 3.50    | 3.25          |
| <b>ENDIVE</b>              |                        |  |                   |     |                   |         |               |
|                            | Cut leaf, late         | Green Curled Ruffec                                | .10               | —   | .25               | .75     | .70           |
|                            | Broad leaf, early      | Batavian Full Heart                                | .10               | —   | .25               | .75     | .70           |
| <b>KALE — Curled</b>       |                        |  |                   |     |                   |         |               |
|                            | Dwarf, early           | Blue Scotch  | .10               | —   | .25               | .75     | .70           |
|                            | Long standing, late    | Blue-Green Siberian                                | .10               | —   | .25               | .75     | .70           |
| <b>KOHL RABI</b>           |                        |  |                   |     |                   |         |               |
|                            | Early forcing          | White Vienna                                       | .10               | .25 | .75               | 2.50    | 2.40          |
|                            | Early dwarf            | Purple Vienna                                      | .10               | .25 | .75               | 2.50    | 2.40          |
| <b>LEEK</b>                |                        |  |                   |     |                   |         |               |
|                            | Long thick stem, early | Large American Flag                                | .10               | .25 | .75               | 2.50    | 2.40          |

*Clark's Special, when well grown, meets every demand for a long, green slicing cuke. . . . The crisp, sparkling, New York No. 12 lettuce produces a high percentage of solid heads.*



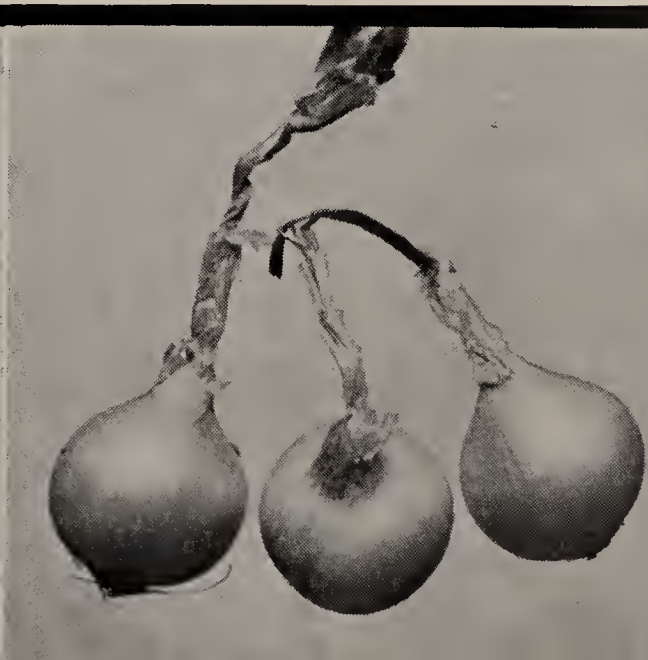




*When the faith and hope of the planter is rewarded with a satisfactory crop, the crisp heads pack snugly into the package and tempt the consumer in every market.*

| Kind of<br>Vegetable            | Description<br>of Type        | Order from this Column of<br>Eastern States Varieties | Consumers' Prices |     |                      |            | 10-25-<br>50-<br>Cwt. |
|---------------------------------|-------------------------------|---|-------------------|-----|----------------------|------------|-----------------------|
|                                 |                               |   | Pkt.              | Oz. | $\frac{1}{4}$<br>Lb. | 1-5<br>Lb. |                       |
| <b>LETTUCE</b>                  |                               |   |                   |     |                      |            |                       |
|                                 | Loose leaf                    | Early Curled Simpson                                  | .10               | —   | .25                  | .75        | .70                   |
|                                 | Crisp Head                    | New York No. 12                                       | .10               | —   | .25                  | .75        | .70                   |
|                                 | Butter head                   | White Boston  | .10               | —   | .25                  | .75        | .70                   |
|                                 | Cos Green                     | Dark Green cos  | .10               | —   | .25                  | .75        | .70                   |
|                                 | Cos White                     | White Paris cos                                       | .10               | —   | .25                  | .75        | .70                   |
| <b>MUSKMELON — Salmon Flesh</b> |                               |   |                   |     |                      |            |                       |
|                                 | Small globe ribbed, early     | Emerald Gem   | .10               | —   | .35                  | 1.25       | 1.20                  |
|                                 | Large oval ribbed 2d early    | Milwaukee Market                                      | .10               | —   | .35                  | 1.25       | 1.20                  |
|                                 | Large ob. ribbed mid early    | Osage (Millers Cream)                                 | .10               | —   | .35                  | 1.25       | 1.20                  |
|                                 | Large obl. ribbed midseason   | Benders Surprise                                      | .10               | —   | .35                  | 1.25       | 1.20                  |
|                                 | Large globe ribbed midlate    | Honey Rock (Sugar Rock)                               | .10               | —   | .35                  | 1.25       | 1.20                  |
|                                 | Large globe ribbed midlate    | Hearts of Gold  | .10               | —   | .35                  | 1.25       | 1.20                  |
| <b>WATERMELON</b>               |                               |   |                   |     |                      |            |                       |
|                                 | Oval pink flesh black seed    | Cole's Early  | .10               | —   | .25                  | .75        | .70                   |
|                                 | Oblong red flesh wh. seed     | Kleckley's Sweet 2nd Early                            | .10               | —   | .25                  | .75        | .70                   |
|                                 | Oval Scarlet fl. bl. tip seed | Stone Mountain Late                                   | .10               | —   | .25                  | .75        | .70                   |
| <b>ONION SEED — Yellow</b>      |                               |   |                   |     |                      |            |                       |
|                                 | Flat deep, early              | Ebenezer  | .10               | .25 | .75                  | 2.50       | 2.40                  |
|                                 | Flat to oval, early           | Extra Early Yellow                                    | .10               | .25 | .75                  | 2.50       | 2.40                  |
|                                 | Globe 2nd early               | Early Yellow Globe                                    | .10               | .25 | .75                  | 2.50       | 2.40                  |
|                                 | Globe mid early               | Yellow Globe Danvers                                  | .10               | .25 | .75                  | 2.50       | 2.40                  |
|                                 | Globe Late                    | Riverside Sweet Spanish                               | .10               | .25 | .75                  | 2.50       | 2.40                  |
| <b>ONION SEED — White</b>       |                               |   |                   |     |                      |            |                       |
|                                 | Globe                         | Southport White Globe                                 | .10               | .25 | .75                  | 2.50       | 2.40                  |
| <b>ONION SETS</b>               |                               |   |                   |     |                      |            |                       |
|                                 | Yellow flat deep              | Japanese Ebenezer                                     | —                 | —   | —                    | .15        | .12                   |
|                                 | Yellow oval                   | Golden Marvel Bottleneck                              | —                 | —   | —                    | .15        | .12                   |
|                                 | White flat deep               | Silverskin White Portugal                             | —                 | —   | —                    | .15        | .12                   |

*The onion most generally grown from sets or an early seed onion is Ebenezer (left). . . . The globe type is available in a steady succession of yellows; also in white.*



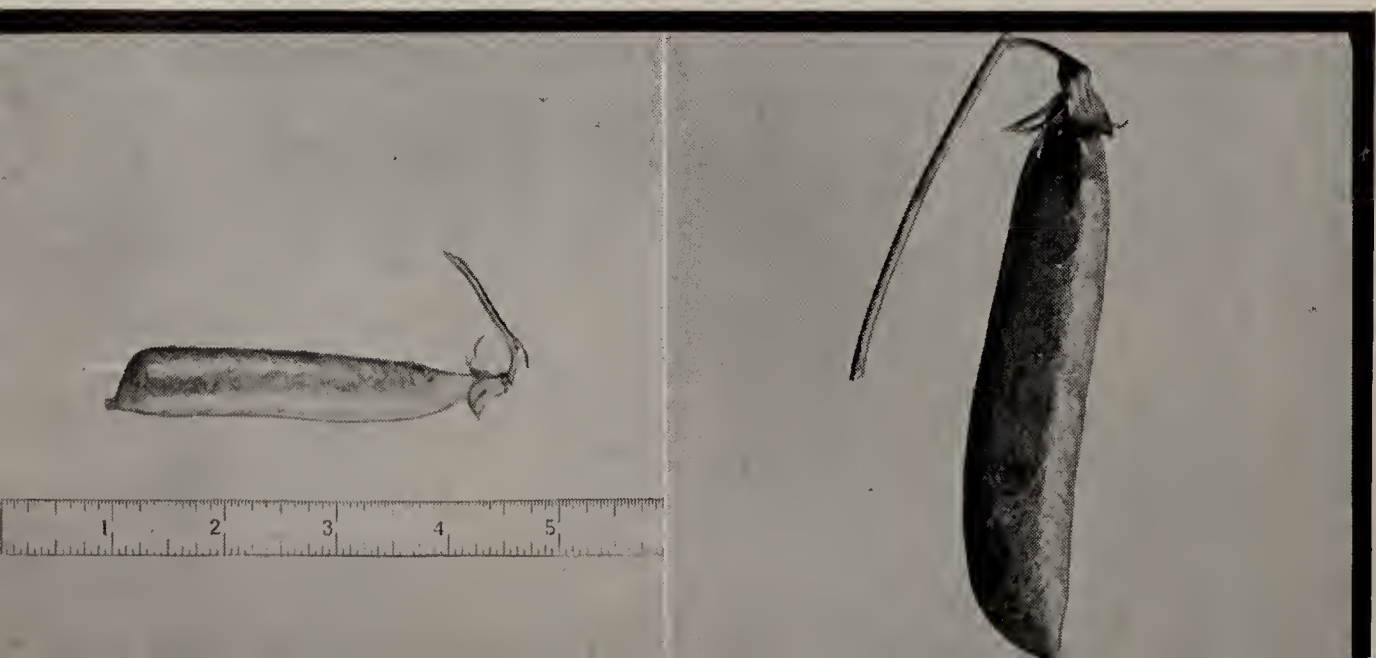




*Alderman {Improved Telephone} is the criterion of all peas. A tall late variety {left}. . . . Two hundred and four different lots were tested, weighed and scored in our trials. The plant can tell its own story and some give a better account of themselves than others.*

| Kind of Vegetable | Description of Type         | Order from this Column of Eastern States Varieties | Consumers' Prices |     |                   |         | 10-25-50-Cwt. |
|-------------------|-----------------------------|--|-------------------|-----|-------------------|---------|---------------|
|                   |                             |  | Pkt.              | Oz. | $\frac{1}{4}$ Lb. | 1-5 Lb. |               |
| PARSLEY           |                             |  |                   |     |                   |         |               |
|                   | Dwarf moss curled           | Emerald  | .10               | —   | .25               | .75     | .70           |
|                   | Long stem moss curled       | Peerless Moss Curled                               | .10               | —   | .25               | .75     | .70           |
| PARSNIP           |                             |  |                   |     |                   |         |               |
|                   | Long white smooth           | Improved Hollow Crown                              | .10               | —   | .25               | .75     | .70           |
| PEA — Wrinkled    |                             |  |                   |     |                   |         |               |
|                   | Dwarf, early                | Little Marvel                                      | .10               | —   | —                 | .30     | .25           |
|                   | Semi dwarf, early           | World Record (Improved Gradus)                     | .10               | —   | —                 | .30     | .25           |
|                   | Dwarf, 2nd early            | Laxtonian  | .10               | —   | —                 | .25     | .20           |
|                   | Dwarf, late                 | Stratagem  | .10               | —   | —                 | .25     | .20           |
|                   | Tall, late                  | Alderman (Telephone)                               | .10               | —   | —                 | .25     | .20           |
|                   | Canner, semi dwarf, early   | Surprise   | .10               | —   | —                 | .25     | .20           |
|                   | Edible pod, dwarf, 2d early | Dwarf Grey Sugar                                   | .10               | —   | —                 | .25     | .20           |
|                   | Edible pod, tall, late      | Mammoth Melting Sugar                              | .10               | —   | —                 | .25     | .20           |

*This Little Marvel {left} is a marvel in any garden. . . . World's Record, a dandy market pea. Both are early, sweet wrinkled peas with deep green pods of exceptional quality. The delicious flavor of fresh June peas is unsurpassed. A succession prolongs the delight.*







*The smooth, thick walled California Wonder is unquestionably the premier stuffing pepper, while our giant selection of Ruby King is a favorite for general culinary uses. . . . Most vegetables are eaten for their nutritional values. Most of them aid digestion. Peppers are adapted to many uses, raw in salads and prepared individually or with other foods.*

| Kind of<br>Vegetable  | Description<br>of Type | Order from this Column of<br>Eastern States Varieties | Consumers' Prices |     |                      |            | 10-25-      |
|-----------------------|------------------------|---|-------------------|-----|----------------------|------------|-------------|
|                       |                        |   | Pkt.              | Oz. | $\frac{1}{4}$<br>Lb. | 1-5<br>Lb. | 50-<br>Cwt. |
| <b>PEPPER — Sweet</b> |                        |   |                   |     |                      |            |             |
| Short, heavy, early   |                        | Early Giant   | .10               | .35 | 1.00                 | 3.50       | 3.25        |
| Long, heavy, early    |                        | Giant King  | .10               | .35 | 1.00                 | 3.50       | 3.25        |
| Long, heavy, late     |                        | World Beater  | .10               | .35 | 1.00                 | 3.50       | 3.25        |
| Short, heavy, late    |                        | California Wonder                                     | .10               | .35 | 1.00                 | 3.50       | 3.25        |
| <b>PEPPER — Hot</b>   |                        |   |                   |     |                      |            |             |
| Long, slender, early  |                        | Long Red Cayenne                                      | .10               | .35 | 1.00                 | 3.50       | 3.25        |
| Small, tapering, late |                        | Tabasco   | .10               | .35 | 1.00                 | 3.50       | 3.25        |

*Peerless long stem parsley, suitable for bunching, makes attractive garnishing or flavoring. . . . The long Hollow Crown parsnip on the right is bright, smooth, sweet and tender after freezing. Those who have learned to enjoy parsnips know the pleasure which variety adds to the diet.*







Every garden should include *White Icicle* radish. *Long Scarlet* is similar except in color. . . . *Early Scarlet Globe* (right) is a popular early sort. *Philadelphia White Box* adds variety in color as does also the *Sparkler* with its white tipped scarlet globe. *Crimson Giant* remains mild and crisp over a long growing period, resembling *Scarlet Globe* but gets much larger.

| Kind of<br>Vegetable | Description<br>of Type     | Order from this Column of<br>Eastern States Varieties          | Consumers' Prices |     |                      |            | 10-25-<br>50-<br>Cwt. |
|----------------------|----------------------------|--|-------------------|-----|----------------------|------------|-----------------------|
|                      |                            |  | Pkt.              | Oz. | $\frac{1}{4}$<br>Lb. | 1-5<br>Lb. |                       |
| <b>PUMPKIN</b>       |                            |  |                   |     |                      |            |                       |
|                      | Field, round, yellow       | Connecticut Field  | .10               | —   | .25                  | .75        | .70                   |
|                      | Pie, round, yellow         | New England Pie  | .10               | —   | .25                  | .75        | .70                   |
|                      | Pie, round, yellow, netted | Winter Luxury  | .10               | —   | .25                  | .75        | .70                   |
|                      | Pie, flat, canner          | Large Cheese   | .10               | —   | .25                  | .75        | .70                   |
| <b>RADISH</b>        |                            |  |                   |     |                      |            |                       |
|                      | Early, globe, scarlet      | Early Scarlet Globe  | .10               | —   | .25                  | .75        | .70                   |
|                      | 2nd early, globe, crimson  | Crimson Giant  | .10               | —   | .25                  | .75        | .70                   |
|                      | Early scarlet white tip    | Sparkler White Tip   | .10               | —   | .25                  | .75        | .70                   |
|                      | Early globe, white         | Philadelphia White Box   | .10               | —   | .25                  | .75        | .70                   |
|                      | Early long, scarlet        | Long Scarlet   | .10               | —   | .25                  | .75        | .70                   |
|                      | Early long, white          | White Icicle   | .10               | —   | .25                  | .75        | .70                   |
|                      | Late, large, long, white   | Chinese Winter Celestial                                       | .10               | —   | .25                  | .75        | .70                   |
| <b>RHUBARB ROOTS</b> |                            |  |                   |     |                      |            |                       |
|                      | Mammoth strawberry         | Victoria Selection, Packed F.O.B. 8.00 per 100, 75.00 per 1000 |                   |     |                      |            |                       |
| <b>SALSIFY</b>       |                            |  |                   |     |                      |            |                       |
|                      | Oyster plant               | Mammoth Sandwich Island  | .10               | .25 | .75                  | 2.50       | 2.40                  |

*Blue Hubbard* of the thick flesh type is an excellent variety for winter storage (left). When properly grown, the *Blue Hubbard* of Certi-Seed selection is a heavy yielder.







*The Connecticut Field pumpkin is a delight to all in the Halloween season. Golden and Green Delicious are noted for their dry mellow flesh. They keep well in storage.*

| Kind of<br>Vegetable            | Description<br>of Type | Order from this Column of<br>Eastern States Varieties | Consumers' Prices |     |                      |            | 10-25-<br>50-<br>Cwt. |
|---------------------------------|------------------------|---|-------------------|-----|----------------------|------------|-----------------------|
|                                 |                        |   | Pkt.              | Oz. | $\frac{1}{4}$<br>Lb. | 1-5<br>Lb. |                       |
| <b>SQUASH — Summer Bush</b>     |                        |   |                   |     |                      |            |                       |
| Yellow warted, early            |                        | Giant Summer Straight Neck                            | .10               | —   | .35                  | 1.25       | 1.20                  |
| Green striped smooth 2d E.      |                        | Long Cocozelle  | .10               | —   | .35                  | 1.25       | 1.20                  |
| White Patty Pan                 |                        | White Bush Scallop                                    | .10               | —   | .35                  | 1.25       | 1.20                  |
| <b>SQUASH — Fall and Winter</b> |                        |   |                   |     |                      |            |                       |
| Green acorn table queen         |                        | Des Moines  | .10               | —   | .35                  | 1.25       | 1.20                  |
| Orange top dry flesh            |                        | Golden Delicious                                      | .10               | —   | .35                  | 1.25       | 1.20                  |
| Green top dry flesh             |                        | Green Delicious                                       | .10               | —   | .35                  | 1.25       | 1.20                  |
| Blue warted                     |                        | Blue Hubbard  | .10               | —   | .35                  | 1.25       | 1.20                  |
| Green warted                    |                        | Vermont Hubbard                                       | .10               | —   | .35                  | 1.25       | 1.20                  |
| Red Turban                      |                        | Warren's Essex Hybrid                                 | .10               | —   | .35                  | 1.25       | 1.20                  |
| <b>SPINACH</b>                  |                        |   |                   |     |                      |            |                       |
| Savoy early                     |                        | Dark Green Bloomsdale                                 | .10               | —   | —                    | .25        | .20                   |
| Savoy, 2nd early                |                        | Long Standing Bloomsdale                              | .10               | —   | —                    | .25        | .20                   |
| Blight res't savoy, late        |                        | Va. Yellows Resistant Savoy                           | .10               | —   | —                    | .25        | .20                   |
| Large smooth long standing      |                        | Giant Nobel Thick Leaf                                | .10               | —   | —                    | .25        | .20                   |
| Early planted summer cut        |                        | New Zealand   | .10               | —   | .25                  | .75        | .70                   |

*An early summer White Bush Scallop (left) is admired by many for its mildness of flavor. . . . The early Giant Summer Straight Neck is selected for its smooth tender texture. In order to fully appreciate summer squash, the fruits must be picked when quite young. The outer shell should be soft and tender. The younger the fruit the more tender they are.*



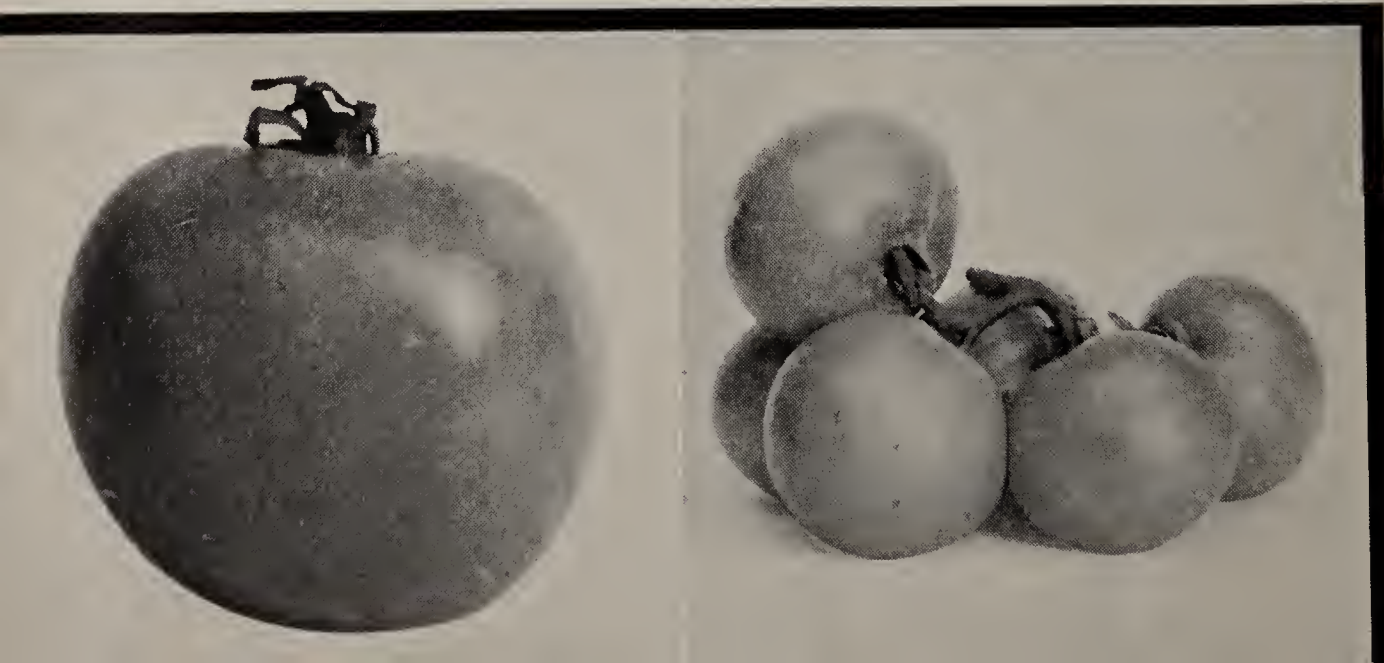




*Penn State Earliana, developed by Dr. Myers of the Pennsylvania State College, is extremely early, very productive over a short picking season before other varieties are ready, and the fruits are quite smooth, firm and of an attractive bright red color. Note the thick wall, small seed cavities and solidity of this strain. As a first early tomato it deserves recognition. Due to its sparse vine growth, it can be set closer than other later varieties.*

| Kind of<br>Vegetable     | Description<br>of Type     | Order from this Column of<br>Eastern States Varieties | Consumers' Prices |     |                      |            | 10-25-      |
|--------------------------|----------------------------|---|-------------------|-----|----------------------|------------|-------------|
|                          |                            |   | Pkt.              | Oz. | $\frac{1}{4}$<br>Lb. | 1-5<br>Lb. | 50-<br>Cwt. |
| <b>TOMATO</b>            |                            |   |                   |     |                      |            |             |
|                          | Scarlet oval, very early   | Penn State Earliana                                   | .10               | .35 | 1.00                 | 3.50       | 3.25        |
|                          | Scarlet globe, 2nd early   | John Baer (Bonny Best)                                | .10               | .35 | 1.00                 | 3.50       | 3.25        |
|                          | Scarlet topper, mid early  | Pritchard   | .10               | .35 | 1.00                 | 3.50       | 3.25        |
|                          | Scarlet wilt res't main c. | Marglobe  | .10               | .35 | 1.00                 | 3.50       | 3.25        |
|                          | Scarlet oval, late         | Stone   | .10               | .35 | 1.00                 | 3.50       | 3.25        |
|                          | Pink globe, main crop      | Globe   | .10               | .35 | 1.00                 | 3.50       | 3.25        |
|                          | Yellow globe, main crop    | Golden Queen  | .10               | .50 | 1.50                 | 5.00       | 4.75        |
| <b>TOMATO — Pickling</b> |                            |   |                   |     |                      |            |             |
|                          | Small fruited              | Red Pear  | .10               | .50 | 1.50                 | 5.00       | 4.75        |
|                          |                            | Yellow Pear   | .10               | .50 | 1.50                 | 5.00       | 4.75        |

*The late Dr. Pritchard of the U.S.D.A. developed two outstanding disease resistant tomatoes. The Marglobe {left} is resistant to wilt and nail-head rust diseases. It has size, depth, smoothness, uniformity and bright scarlet red coloring. The interior is very fleshy, solid, thick walled and of pleasing flavor when grown under favorable soil and weather conditions. The vines are very vigorous in growth, producing fruit until killed by frost or disease. . . . The Pritchard {Scarlet Topper} came from a cross between Marglobe and an early variety known as Cooper's Special. Its early terminal flower buds prevent further vine growth. It is noted for its early prolific habits of setting large, firm, smooth scarlet red fruits in clusters. It is resistant to wilt and nail-head rust, bright interior color and produces the most of its fruit within a few early pickings. The exterior color is often light around the stem.*







*Purple Top White Milan turnip is very early, with flattened roots of white, sweet, tender flesh. . . . The Macomber (White Cape) Rutabaga is noted for its fine grained, mild, white flesh. The roots are large, attractive, white, globe in shape and are best developed in regions with a long, cool fall season, typical of the shore region of southern New England.*

| Kind of<br>Vegetable | Description<br>of Type | Order from this Column of<br>Eastern States Varieties | Consumers Prices |     |                      |            |                       |
|----------------------|------------------------|---|------------------|-----|----------------------|------------|-----------------------|
|                      |                        |   | Pkt.             | Oz. | $\frac{1}{4}$<br>Lb. | 1-5<br>Lb. | 10-25-<br>50-<br>Cwt. |
| TURNIP               |                        |   |                  |     |                      |            |                       |
|                      | White flesh, early     | Purple Top White Milan                                | .10              | —   | .15                  | .40        | .35                   |
|                      | White flesh, late      | Purple Top White Globe                                | .10              | —   | .15                  | .40        | .35                   |
|                      | Yellow flesh, mid late | Golden Ball (Orange Jelly)                            | .10              | —   | .15                  | .40        | .35                   |
| RUTABAGA             |                        |   |                  |     |                      |            |                       |
|                      | Yellow flesh, round    | L. I. Neckless Purple Top                             | .10              | —   | .15                  | .40        | .35                   |
|                      | White flesh, round     | Macomber (White Cape)                                 | .10              | —   | .15                  | .40        | .35                   |

The Eastern States Farmers' Exchange of Springfield, Mass. has exercised all reasonable precautions in the production and distribution of this seed; but cannot be responsible for the operation of Nature's laws; nor govern the conditions under which the crop is grown. Therefore, upon the acceptance of this seed, it is mutually agreed that the Eastern States Farmers' Exchange gives no warranty express or implied, concerning the description, quality, productiveness or condition of the crop and shall in no case be liable for more than the amount actually paid for the seed. Statements of germination, description and other information are given as the report of our tests, observations and advice.



# EASTERN STATES FARMERS' EXCHANGE

Headquarters: SPRINGFIELD, MASS.



A PLANTING CHART FOR EASTERN STATES VEGETABLES

| Kind Of Vegetable | Av. % Germ. 1 yr. | Av. Life Year | No. Of Seeds Per Oz. | Seed For 100' 100' | Seed Per Acre | Seeds For Given No. Plants | Time To Grow Before Field Transplanting | Plant For Forcing | Field (S) Planting Dates | Inches Between Rows | Inches Apart in Row | Depth Plant Inch | Days To Harvest | Relative Lime Needs | Not Below pH |
|-------------------|-------------------|---------------|----------------------|--------------------|---------------|----------------------------|---|-------------------|--------------------------|---------------------|---------------------|------------------|-----------------|---------------------|--------------|
| Asparagus Seed    | 80                | 3             | 1250                 | 1 oz R-50          | 5 # 9680      | 1 1/4-12000                | 1 year                                  | -                 | 4/1-5/15                 | 16-24               | 3-6                 | 1                | 4 yrs           | Very High           | 6.5          |
| Asparagus Roots   | -                 | -             | -                    | -                  | -             | -                          | -                                       | -                 | 4/1-5/15                 | 36-48               | 18-24               | 6-10             | 3 yrs           | Very High           | 6.5          |
| Beans - Bush      | 85                | 3             | 60-75                | 1 1b               | 60#           | -                          | -                                       | -                 | 5/1-8/1                  | 24-30               | 2-4                 | 1-1 1/2          | 4 1/2-70        | Medium              | 5.5          |
| Beans - Pole      | 85                | 3             | 50-75                | 1 1b               | 30#           | -                          | -                                       | -                 | 5/15-6/1                 | 36-48               | 6-48                | 1-1 1/2          | 75-90           | Medium              | 5.5          |
| Beet - Table      | 70                | 4             | 1500                 | 1 oz               | 10#           | 1 oz-2000                  | 3 to 4 weeks                            | 2/1-3/1           | 4/1-8/1                  | 12-18               | 1 1/2-3             | 1 1/2            | 50-75           | Very High           | 6.5          |
| Beet - Mangel     | 70                | 4             | 1200                 | 1 oz               | 6-8#          | -                          | -                                       | -                 | 5/1-6/1                  | 18-36               | 4-6                 | 1 1/2            | 90-95           | Very High           | 6.5          |
| Beet-Swiss Chard  | 70                | 4             | 1100                 | 1 oz               | 4-6#          | -                          | -                                       | -                 | 5/1-6/1                  | 24-30               | 4-6                 | 1 1/2            | 50-75           | Very High           | 6.0          |
| Broccoli          | 80                | 4             | 10500                | 1 oz               | 3 oz          | 1 oz-5000                  | 6 to 8 weeks                            | 2/1-3/1           | 4/1-6/15                 | 24-36               | 18-24               | 1 1/2            | 65-100          | Very High           | 6.5          |
| Brussels Sprouts  | 75                | 4             | 6500                 | 1 oz               | 4 oz          | 1 oz-3000                  | 6 to 8 weeks                            | -                 | 5/1-6/1                  | 24-36               | 18-24               | 1 1/2            | 95-120          | Medium              | 5.5          |
| Cabbage           | 80                | 4             | 8500                 | 1 oz               | 4 oz          | 1 oz-4000                  | 5 to 7 weeks                            | 2/1-3/1           | 4/1-6/15                 | 24-36               | 14-24               | 1 1/2            | 60-120          | High                | 6.0          |
| Cabbage Chinese   | 80                | 4             | 7000                 | 1 oz               | 4 oz          | 1 oz-3000                  | 6 to 8 weeks                            | -                 | 7/1-8/1                  | 18-24               | 14-18               | 1 1/2            | 75-90           | High                | 6.0          |
| Carrot            | 70                | 3             | 27000                | 1 oz               | 3-5#          | -                          | -                                       | -                 | 4/1-7/1                  | 12-16               | 1-3                 | 1 1/2            | 60-100          | High                | 6.0          |
| Cauliflower       | 75                | 4             | 10500                | 1 oz               | 1 oz          | 1 oz-5000                  | 6 to 8 weeks                            | 2/1-3/1           | 4/1-7/1                  | 24-36               | 18-24               | 1 1/2            | 75-120          | Very High           | 6.5          |
| Celery            | 65                | 3             | 75000                | 1 oz               | 4 oz          | 1 oz-9000                  | 9 to 12 weeks                           | 2/1-3/1           | 5/1-5/15                 | 30-40               | 6-8                 | 1-1 1/2          | 75-120          | Very High           | 6.5          |
| Corn - Sweet      | 85                | 3             | 125                  | 1 oz               | 12#           | -                          | -                                       | -                 | 5/1-6/20                 | 48-60               | 12-36               | 1-1 1/2          | 60-75           | High                | 6.0          |
| Cucumber          | 80                | 5             | 1000                 | 1 oz               | 2 #           | 1 oz-100H                  | 5 to 7 weeks                            | 4/1-5/1           | 5/1-6/15                 | 18-24               | 6-10                | 1 1/2            | 175-210         | Medium              | 5.5          |
| Dandelion         | 75                | 4             | 35000                | 1 oz               | 5-6#          | -                          | -                                       | -                 | 4/1-9/1                  | 24-30               | 18-24               | 1 1/2            | 90-120          | High                | 6.0          |
| Egg Plant         | 65                | 4             | 5000                 | 1 oz               | 6 oz          | 1 oz-2000                  | 8 to 10 weeks                           | 3/1-4/1           | 4/15-7/1                 | 18-24               | 12-18               | 1 1/2            | 90-100          | Medium              | 5.5          |
| Endive            | 75                | 5             | 15000                | 1 oz               | 4-5#          | 1 oz-7500                  | 5 to 6 weeks                            | 3/1-4/1           | 4/1-7/15                 | 24-36               | 18-24               | 1 1/2            | 55-65           | High                | 6.0          |
| Kale              | 75                | 4             | 7500                 | 1 oz               | 4-5#          | -                          | -                                       | -                 | 4/1-7/15                 | 18-24               | 4-6                 | 1 1/2            | 55-65           | Medium              | 5.5          |
| Kohl-Rabi         | 80                | 3             | 8000                 | 1 oz               | 4-5#          | -                          | -                                       | -                 | 4/1-8/15                 | 18-24               | 4-6                 | 1 1/2            | 55-65           | Medium              | 5.5          |
| Leek              | 80                | 2             | 9000                 | 1 oz               | 4-5#          | -                          | -                                       | -                 | 4/1-5/1                  | 18-24               | 3-4                 | 1 1/2            | Winter          | Very High           | 6.5          |
| Lettuce           | 80                | 5             | 16000                | 1 oz               | 3-4#          | 1 oz-8000                  | 5 to 6 weeks                            | 3/1-4/1           | 4/1-7/25                 | 16-18               | 12-16               | 1 1/2            | 45-75           | Very High           | 6.5          |
| Muskmelon         | 80                | 5             | 1200                 | 1 oz               | 2-3#          | 1 oz-50H                   | 5 to 6 weeks                            | 4/1-5/1           | 5/1-6/1                  | 72-84               | 48-60               | 1-1 1/2          | 85-95           | Very High           | 6.5          |
| Watermelon        | 80                | 5             | 200                  | 1 oz               | 3-4#          | 1 oz-25H                   | 5 to 6 weeks                            | 4/1-5/1           | 5/1-6/1                  | 84-96               | 60-72               | 1-1 1/2          | 80-90           | Very Low            | 4.5          |
| Onion Seed        | 75                | 2             | 12000                | 1 oz               | 4-5#          | 1 oz-6000                  | 9 to 12 weeks                           | 1/1-2/1           | 4/1-5/1                  | 18-24               | 3-4                 | 1-1 1/2          | 150-200         | Very High           | 6.5          |
| Onion Sets        | -                 | -             | -                    | 2 1b               | 300#          | -                          | -                                       | -                 | 4/1-5/1                  | 18-24               | 3-4                 | 1-1 1/2          | 90-100          | Very High           | 6.5          |
| Parsley           | 65                | 1             | 17500                | 1 oz               | 3-4#          | -                          | -                                       | -                 | 4/1-8/1                  | 12-18               | 4-6                 | 1 1/2            | 120-150         | Low                 | 5.0          |
| Parasnip          | 65                | 1             | 5600                 | 1 oz               | 4-6#          | -                          | -                                       | -                 | 4/15-5/1                 | 18-24               | 3-4                 | 1 1/2            | Winter          | High                | 6.0          |
| Pea               | 85                | 3             | 90                   | 1 1b               | 90#           | -                          | -                                       | -                 | 4/1-5/1                  | 24-36               | 2-3                 | 1 1/2            | 60-75           | High                | 6.0          |
| Pepper            | 65                | 2             | 4000                 | 1 oz               | 3 oz          | 1 oz-1500                  | 8 to 9 weeks                            | 3/1-4/1           | 5/15-6/1                 | 24-36               | 18-24               | 1 1/2            | 65-90           | High                | 6.0          |
| Pumpkin           | 80                | 4             | 100                  | 1 oz               | 4-5#          | 3#-100 H                   | -                                       | -                 | 5/15-6/1                 | 84-96               | 60-72               | 1-1 1/2          | 110-120         | High                | 6.0          |
| Radish            | 85                | 4             | 3500                 | 1 oz               | 12#           | -                          | -                                       | -                 | 4/1-9/1                  | 12-14               | 1-2                 | 1 1/2            | 24-30           | Low                 | 5.0          |
| Rhubarb Roots     | -                 | -             | -                    | R-25               | 3000          | -                          | -                                       | -                 | 4/1-9/1                  | 48-56               | 36-48               | 1 1/2            | 2 yrs           | Medium              | 5.5          |
| Salsify           | 75                | 1             | 4500                 | 1 oz               | 7-8#          | -                          | -                                       | -                 | 4/15-5/1                 | 20-24               | 2-3                 | 1 1/2            | Winter          | Very High           | 6.5          |
| Spinach           | 70                | 3             | 3000                 | 1 oz               | 12#           | -                          | -                                       | -                 | 3/1-9/15                 | 14-18               | 3-6                 | 1 1/2            | 40-50           | Very High           | 6.5          |
| Spinach New Zeal. | 70                | 3             | 350                  | 2 oz               | 15#           | -                          | -                                       | -                 | 4/15-5/1                 | 48-56               | 36-48               | 1-1 1/2          | 60-90           | Very High           | 6.5          |
| Squash Summer     | 80                | 4             | 300                  | 1 oz               | 3-5#          | 1 1/4-100 H                | 5. to 7 weeks                           | 4/1-5/1           | 5/15-6/1                 | 42-48               | 42-48               | 1-1 1/2          | 55-65           | Low                 | 5.0          |
| Squash Winter     | 80                | 4             | 125                  | 2 oz               | 2-3#          | 3#-100 H                   | -                                       | -                 | 6/1-6/10                 | 72-84               | 60-72               | 1-1 1/2          | 100-120         | Low                 | 5.0          |
| Tomato            | 80                | 3             | 7500                 | 2 oz               | 2 oz          | 1 oz-3000                  | 7 to 9 weeks                            | 3/1-4/1           | 5/15-6/1                 | 40-60               | 36-48               | 1 1/2            | 65-90           | High                | 6.0          |
| Turnip            | 85                | 4             | 10000                | 1 oz               | 1-2#          | -                          | -                                       | -                 | 4/1-8/1                  | 12-18               | 2-4                 | 1 1/2            | 60-90           | Low                 | 5.0          |
| Rutabaga          | 85                | 4             | 10000                | 1 oz               | 1-2#          | -                          | -                                       | -                 | 6/15-7/1                 | 18-24               | 4-6                 | 1 1/2            | 80-110          | Low                 | 5.0          |

The average germination of 1 year old seed is conservatively based on vitality rather than mere germination. Guarantees between 80% and 90% may vary 7%, those between 70% and 80% may vary 8% and between 60% and 70% may vary 9% above or below the guarantee. This tolerance is approved by the Official Seed Analysts of North America.

The number of plants obtainable from a given quantity of seed depends upon many factors other than the seed. Even under favorable culture only the best plants should be used, discarding all weaklings. Proper control of temperature, watering, ventilation, spacing, fertilization and handling reduces the percentage of weak plants.

The time of planting and days to harvest are only approximate and vary with location, season, variety and management. Have your soil in every field tested for acidity. Apply sufficient lime to meet the needs of the crops to be grown or choose the crops which are best adapted to the conditions in each field.